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108:37831

TITLE:

A process for the synthesis of alkyl

5-carboxamidobenzimidazole-2-carbamates as

anthelmintics.

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IT 89791-21-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, as anthelmintic)

RN89791-21-9 CAPLUS

CN Carbamic acid, [5-[[(2-furanylmethyl)amino]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & H & O \\ \hline \\ N & NH-C-OMe \end{array}$$

AB The title compds. [I; R = alkyl, such as Me, aryl, such as 2-furylmethyl, (un)substituted Ph; Rl = alkyl, such as Me, Et] were prepd. as anthelmintics (no data) by converting 3,4-O2N(AcNH)C6H3CO2H (II) to its acid chloride and amidating with RNH2, deacetylating, reducing to an o-phenylenediamine, and treating this latter with ClCO2Rl and H2NC(:NH)SMe.H2SO4 (III). II was carried through the process steps, including amidation with 2-furanmethanamine and cyclocondensation with ClCO2Me and III to give II (R = 2-furylmethyl, Rl = Me). The yields for the steps were 95, 78, 70, and 40%, resp.

ACCESSION NUMBER: 1988:37831 CAPLUS

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